Reimagining State Street

Preliminary Design Concepts
October, 2020







AGENDA

- 1. WELCOME
- 2. PROJECT BACKGROUND
- 3. PRELIMINARY DESIGN CONCEPTS
- 4. SCHEDULE

PROJECT TEAM



Boston Public Works DepartmentAshley Biggins, Project Manager



City of Boston Transportation Department

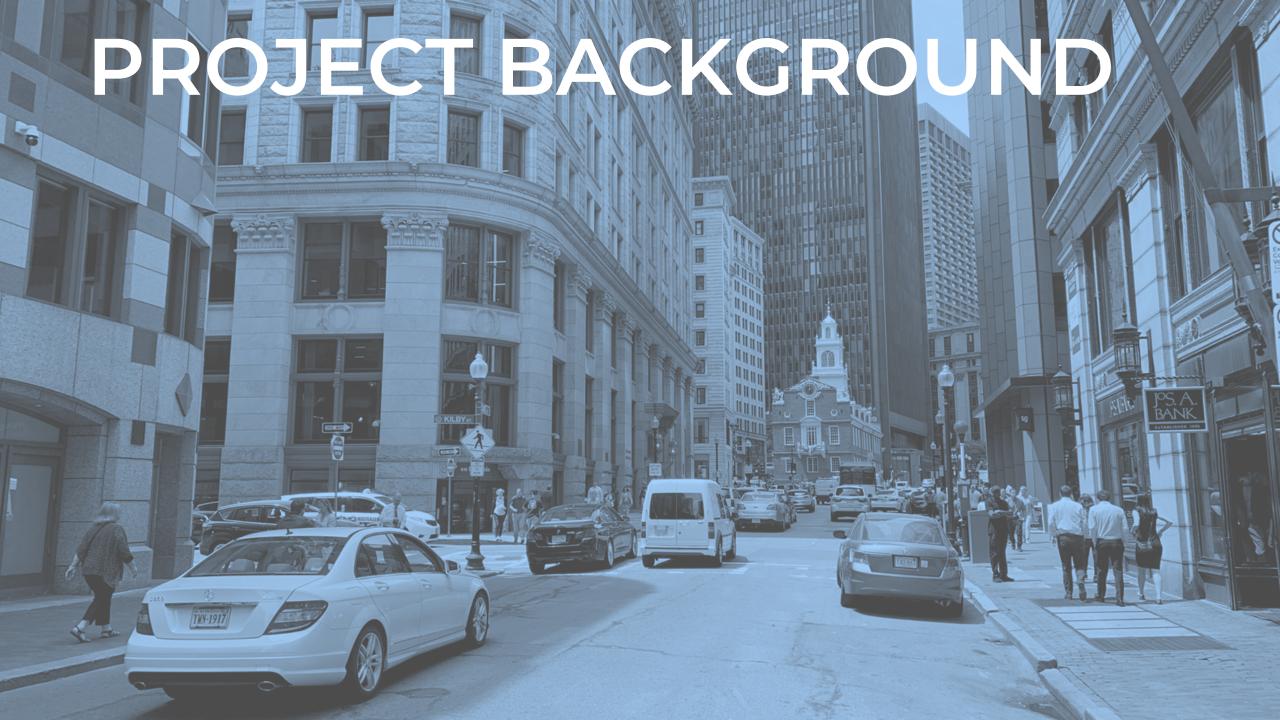
City of Boston
Planning & Development Agency

City of Boston Neighborhood Services

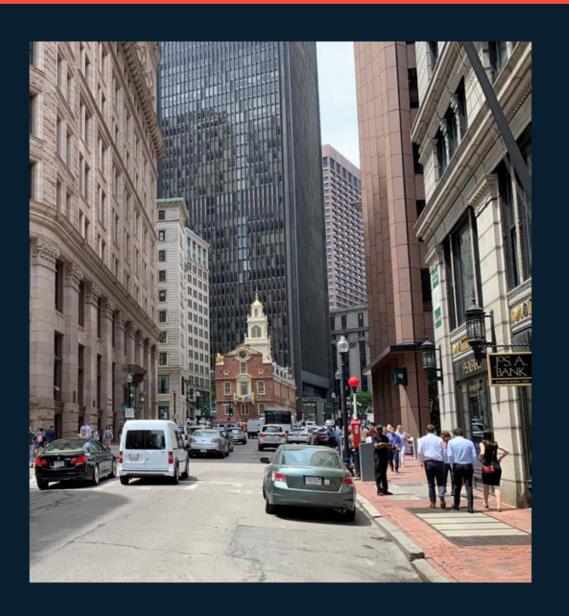








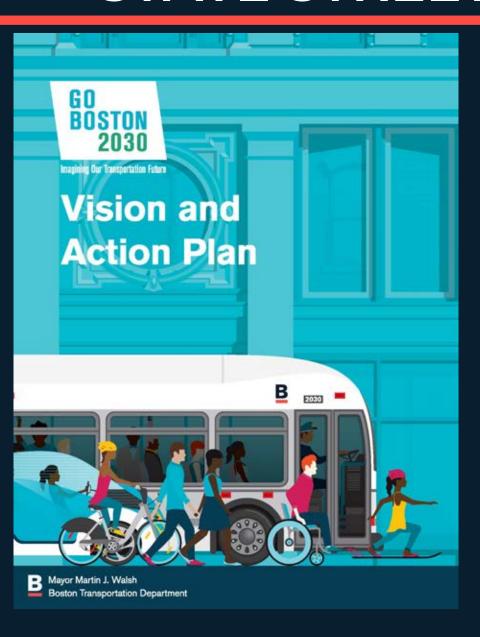
PROJECT CHARTER



State Street is one of Boston's oldest and most iconic streets. Its current configuration makes for a disjointed experience for pedestrians and motorists.

This project is an opportunity to apply a 'People First' approach to the design of State Street. The new design will provide a more balanced experience for all street users by offering safety, mobility, and overall functionality improvements for this corridor.

STATE STREET CONTEXT: Go Boston 2030



Sets goals, targets and an action plan for Boston's transportation system.

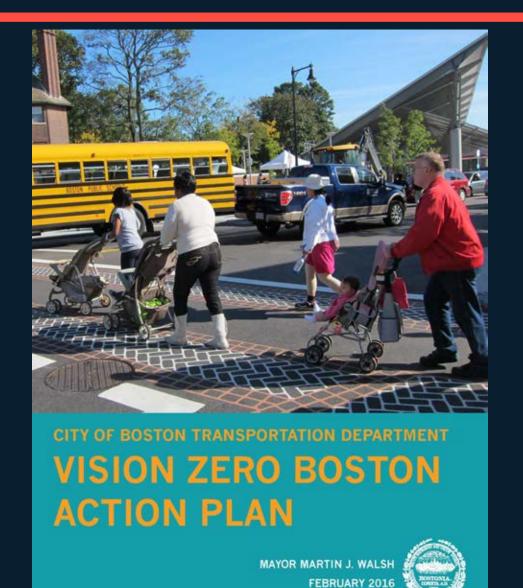
Aspirational targets address:

- Improving Safety
- Eliminate fatalities and severe injuries
- Expanding Access
- 10-minute walk to transit, bike/car share
- Ensuring Reliability
- Reduce average commute by 10 percent
- Reducing Car Use
- See below
- Reducing Emissions
- Carbon neutral by 2050
- Increasing Affordability Reduce transportation costs for low-income households

2030 Targets for Commute Mode Shift:

Mode	Today		2030 Aspirational Goal
Transit	34%	1	by one-third
Walk	14%	1	by one-half
Bike	2%	1	by fourfold
Drive Alone	39%	•	by half
Carpool	6%	•	marginally
Telecommute	5%	1	marginally

STATE STREET CONTEXT: Vision Zero



Provides an action plan to eliminate fatalities and serious injuries from traffic crashes.

"Human life takes priority over mobility and other objectives of the road system. The street system will be safe for all users, for all modes of transportation, in all communities, and for people of all ages and abilities."

STATE STREET CONTEXT: Design Guidelines

Boston Complete Streets

City of Boston

Commissioner Thomas J. Tinlin Boston Transportation Department

Design Guidelines

Provides citywide design principles and guidelines for streets that are:

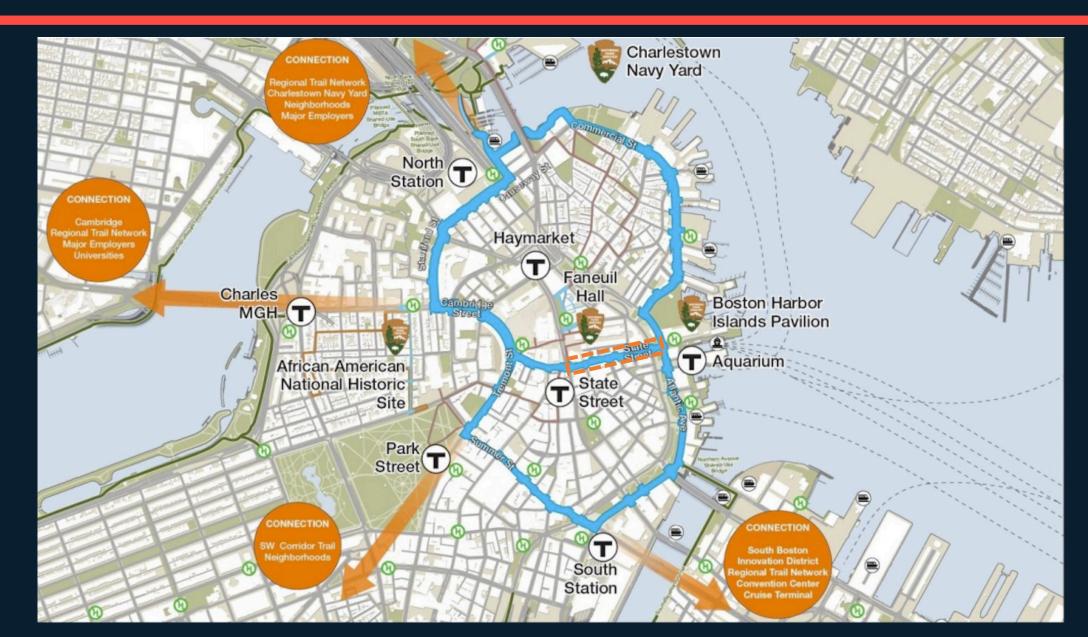
- Multimodal
- Green
- Smart

"Streets are designed for pedestrians of all ages and abilities, bicyclists, transit users and motor vehicles. Multimodal designs ensure Boston's streets are safe and shared comfortably by all users...."



www.bostoncompletestreets.org

STATE STREET CONTEXT: Connect Historic Boston



EXISTING CONDITIONS: Injury Crashes – 5 Years

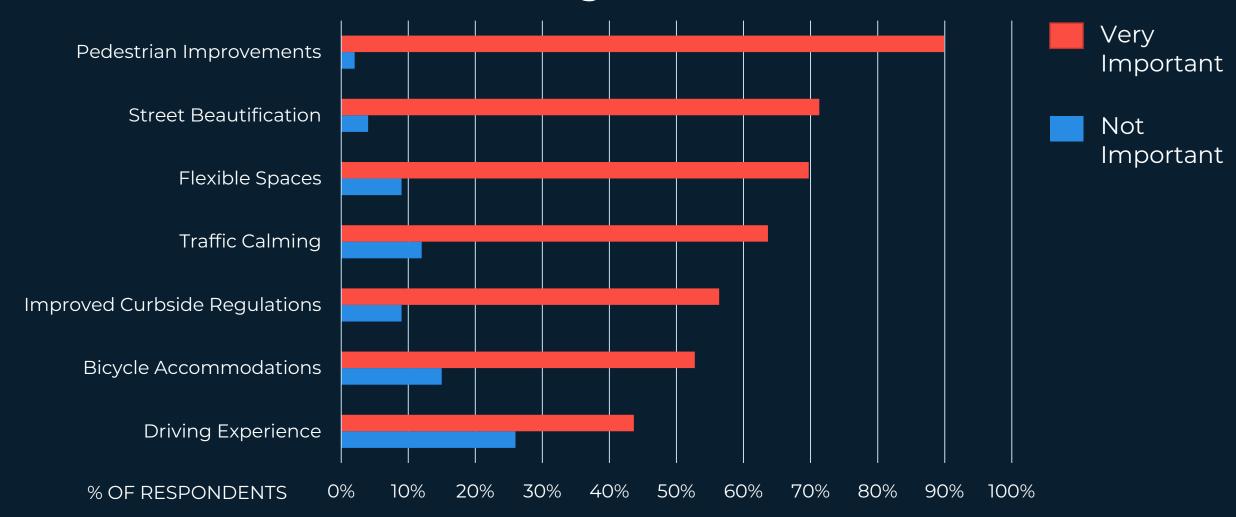


78% of injury crashes on State Street involve bikes and pedestrians

State Street is on Boston's Vision Zero High Crash Network for Bicycles

PUBLIC FEEDBACK THEMES

State Street Design Priorities



PUBLIC FEEDBACK THEMES



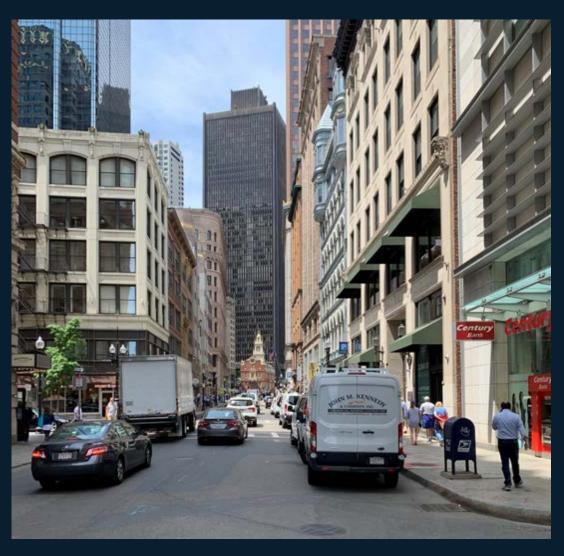
Near unanimous agreement to **place a priority on pedestrians** (i.e. wider sidewalks and safer crossings) (Very Important to 90% of respondents).

Strong support for street **beautification, traffic calming, bicycle improvements, flexible design** (Very Important to 50-70% of respondents).

Strong support for **improving curb regulations** to reduce loading /parking/double parking which exacerbates congestion (Very Important to 60% of respondents).

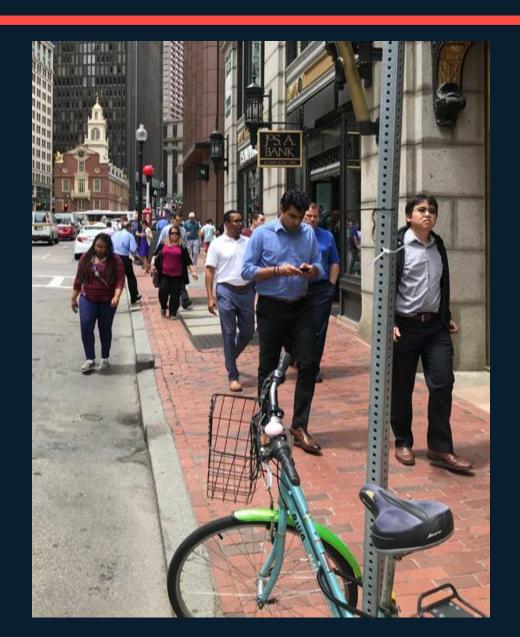
Debate about accommodating vehicles. A desire to reduce/eliminate vehicles on State Street vs. identification of State Street as a vital link for vehicles. **Concern about accommodating vehicles at the expense of others**. (Very Important to 44% of respondents).





DEFINE SINGLE TRAVEL LANE

- Increase Safety for Pedestrians and Bicyclists
- Increase Space for Pedestrians and Bicyclists
- Eliminate Confusion for Drivers
- Reduce Temptation to Double Park / Pass other Cars
- Capacity Flows from Pinch Point



PROVIDE WIDER SIDEWALKS and SAFER CROSSINGS

- Increase Space for Pedestrians
- Improve Visibility of Crosswalks
- Improve Accessibility (sidewalk width, cross slope, stable surface and crossings)



PROVIDE PROTECTED BIKE LANE

- Increase Safety for Bicyclists
- Formalize Key Link in Boston's Network – Connect Historic Boston and Connect Downtown



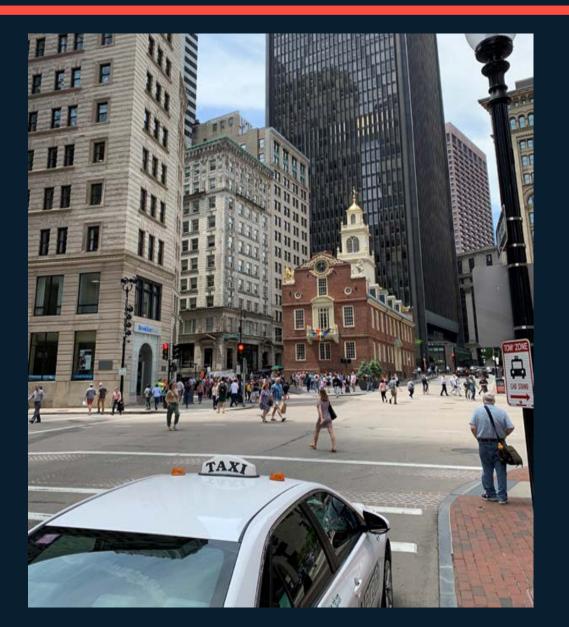
DIRECT LOADING AWAY FROM STATE STREET

- To reduce congestion and improve overall mobility
- Maximize limited space for moving people



FLEXIBLE DESIGN

- Increase opportunities for special events and outdoor activity
- Allow the roadway to respond to changing transportation needs



RECONFIGURE INTERSECTIONS

- Improve safety for all users
 - Calm Turning Vehicles
 - Signalization Modifications (Lead Pedestrian Interval (LPI))
 - Bike Accommodations
 - Improve Visibility at Pedestrian Crossings
 - Lane Striping

What is a Flush Street?

On a 'Flush Street' the sidewalks are at the same level as the street so there are no curbs. Vehicles can be separated from pedestrians by street elements such as bollards, planters, street furniture. A Flush Street provides opportunities to reconfigure street space for special uses or events.



What is a Protected Intersection?

A Protected Intersection uses corner islands to slow vehicles as they turn the corner and improve visibility of bicyclists and pedestrians. This creates a safer crossing for bicyclists and pedestrians.

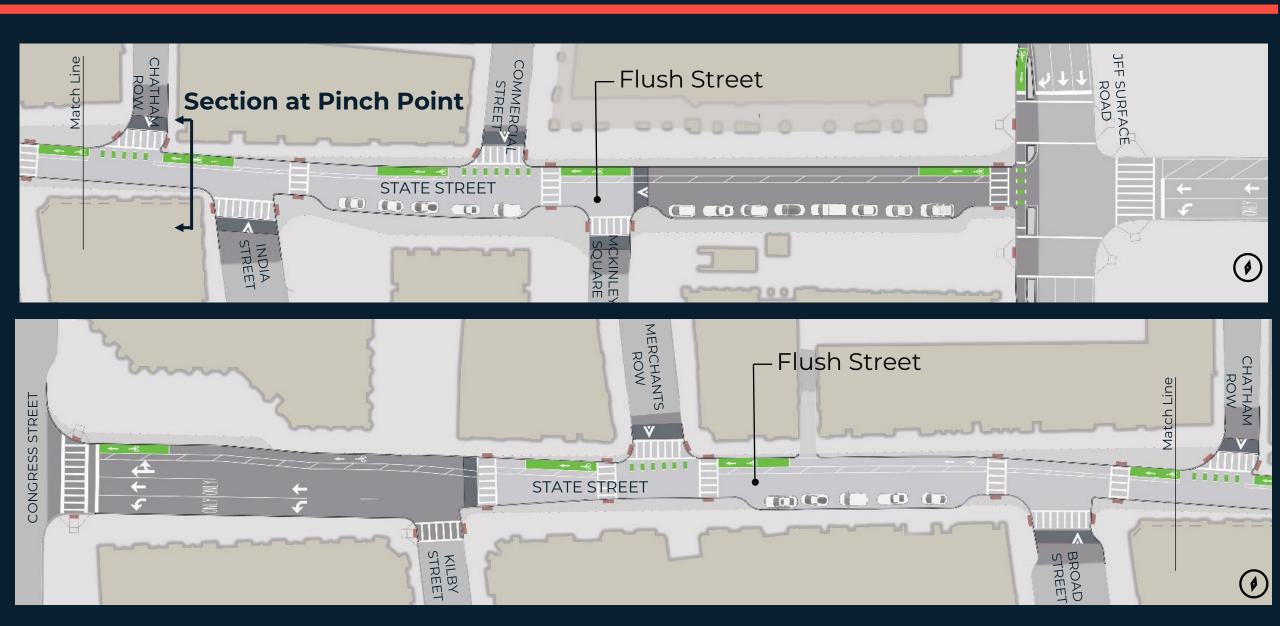




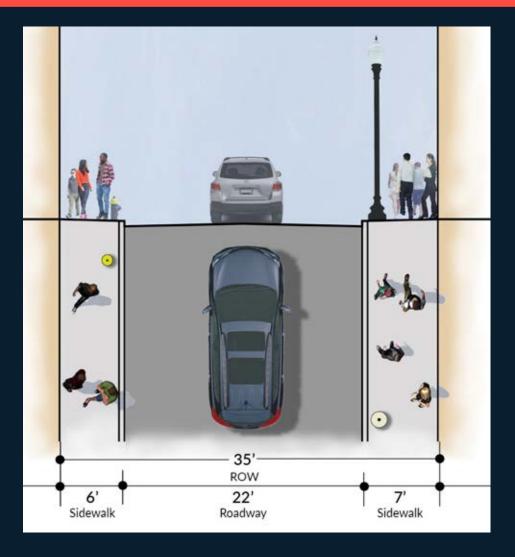
What is a Leading Pedestrian Interval (LPI)?

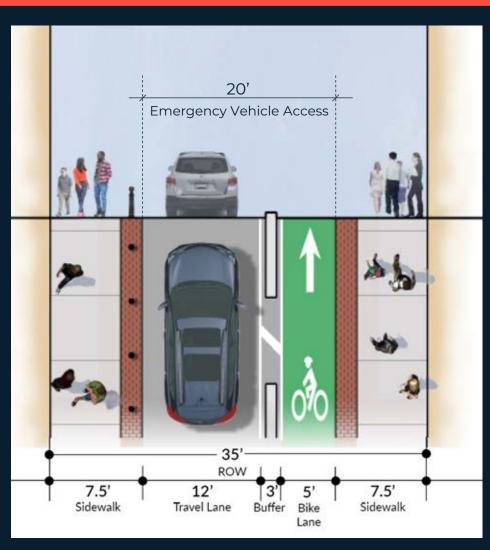
A Leading Pedestrian Interval (LPI) gives pedestrians a 'walk' indication 3 to 7 seconds ahead of vehicles getting a green light in the same direction of travel. LPIs enhance the visibility of pedestrians in the intersection and reinforce their right-ofway over turning vehicles, improving safety in locations with conflicting movements.

CONCEPTUAL DESIGN: Overview



CONCEPTUAL DESIGN: Section at Pinch Point



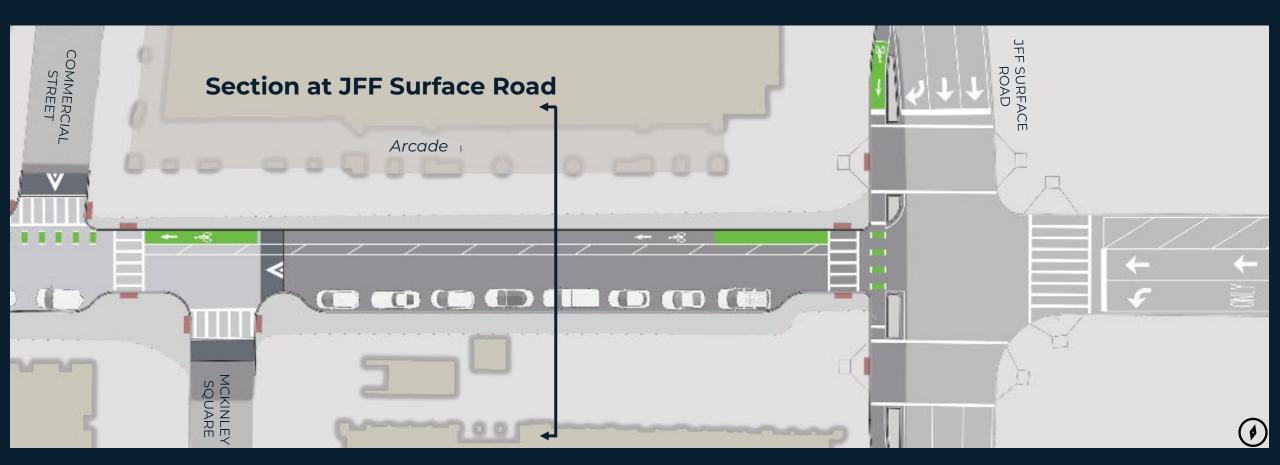


- NarrowedTravelLane
- Sidewalks+2 Feet
- ProtectedWB BikeLane

Existing

Proposed

CONCEPTUAL DESIGN: Section at East End



TWO OPTIONS FOR THIS SEGMENT

Option 1: Relocate North Side Tour Bus Parking

Option 2: North Side Floating Bus Stop

CONCEPTUAL DESIGN: Section at East End: Option 1

Option 1: Relocate North Side Tour Bus Parking

Existing



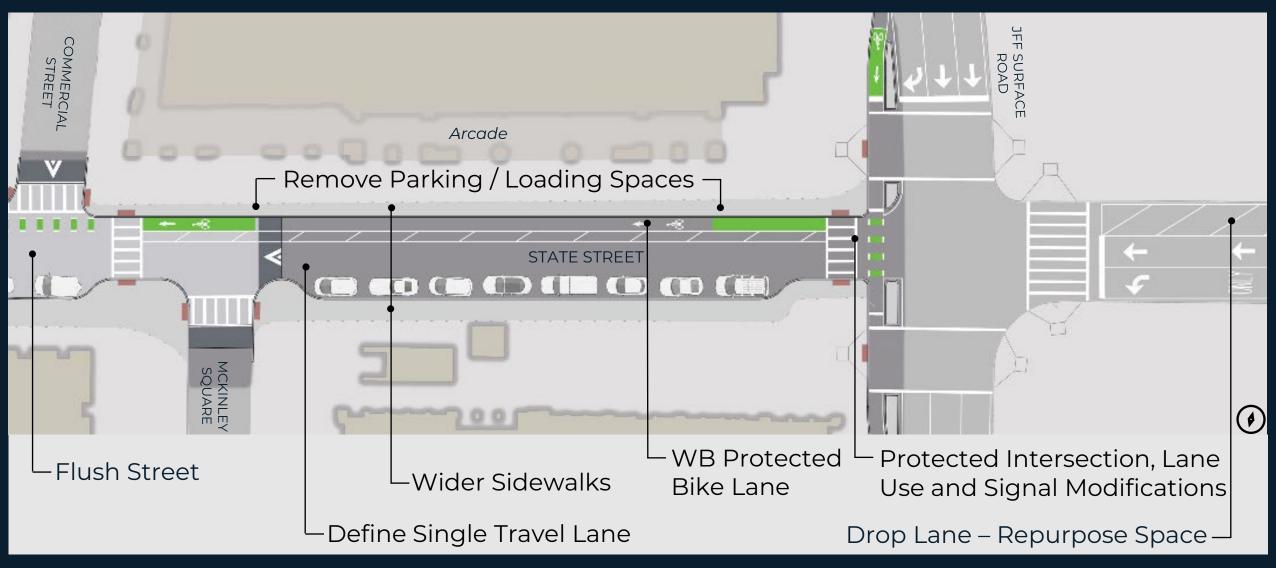
Proposed



- One Travel Lane
- One Loading / Parking Lane
- Sidewalks+ 13 feet
- Protected WB Bike Lane

CONCEPTUAL DESIGN: Plan at East End: Option 1

Option 1: Relocate North Side Tour Bus Parking



CONCEPTUAL DESIGN: Section at East End: Option 2

Option 2: North Side Floating Bus Stop

Existing



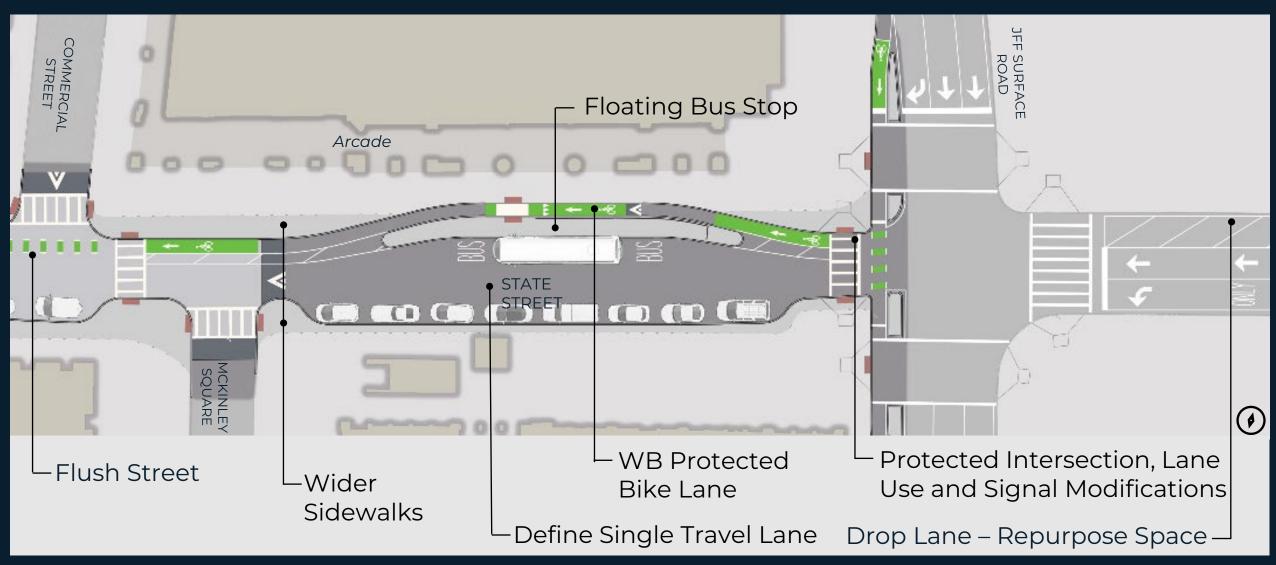
Proposed



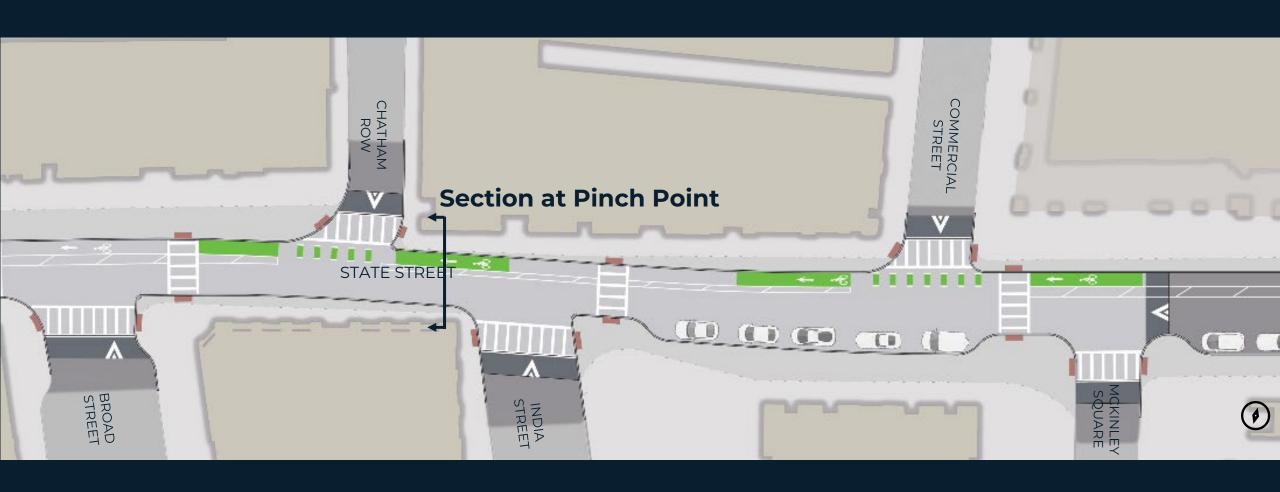
- One Travel Lane
- Floating Bus
 Stop and
 South Loading
 Zone
- Shift SidewalkAlignment+0 feet
- Protected WB Bike Lane

CONCEPTUAL DESIGN: Plan at East End: Option 2

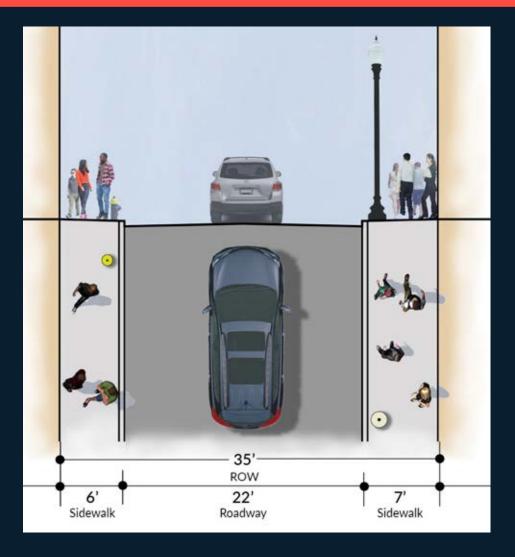
Option 2: North Side Floating Bus Stop

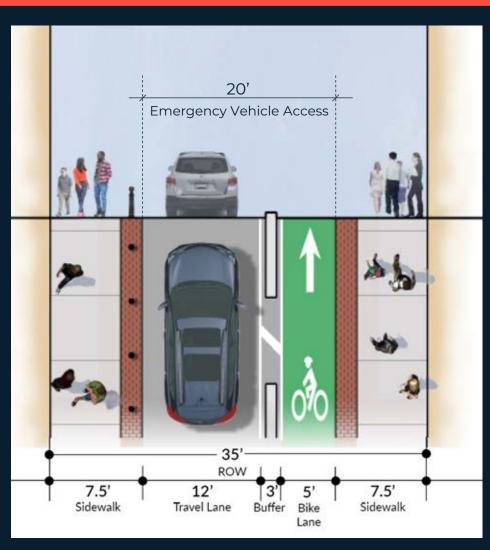


CONCEPTUAL DESIGN: Section at Pinch Point



CONCEPTUAL DESIGN: Section at Pinch Point



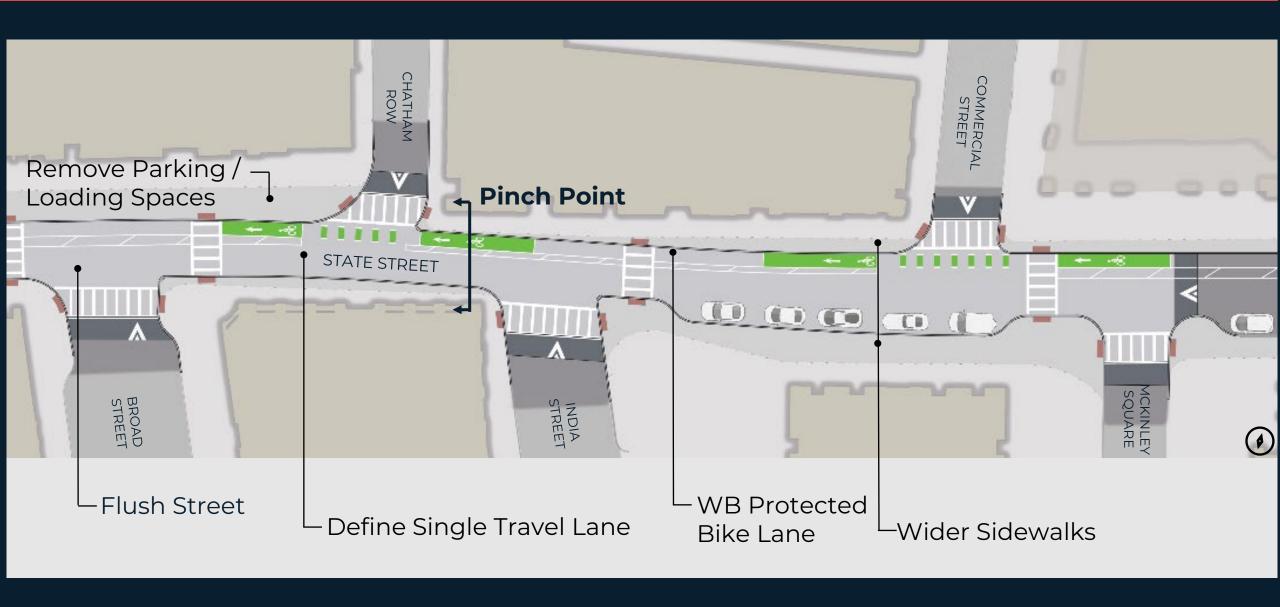


- NarrowedTravelLane
- Sidewalks+2 Feet
- ProtectedWB BikeLane

Existing

Proposed

CONCEPTUAL DESIGN: Plan at Pinch Point Area



CONCEPTUAL DESIGN: Section at Mid-State St.



FOUR OPTIONS FOR THIS SEGMENT

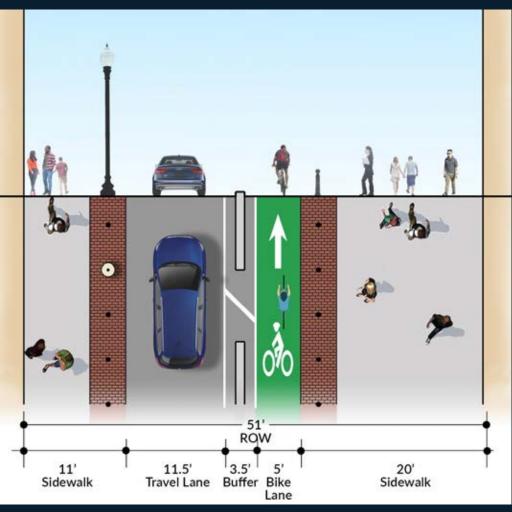
Option 1: Wide Sidewalk North Side – Relocate Loading
Option 2: Balance Sidewalk Both Sides – Relocated Loading

Option 3: Loading on the South Side Option 4: Loading on the North Side

CONCEPTUAL DESIGN: Mid-State Section: Option 1

Option 1: Wide Sidewalk North Side – Relocate Loading





OneTravelLane

- Sidewalks+ 11 feet
- Protected WB Bike Lane

Existing

Proposed

CONCEPTUAL DESIGN: Mid-State Section: Option 1

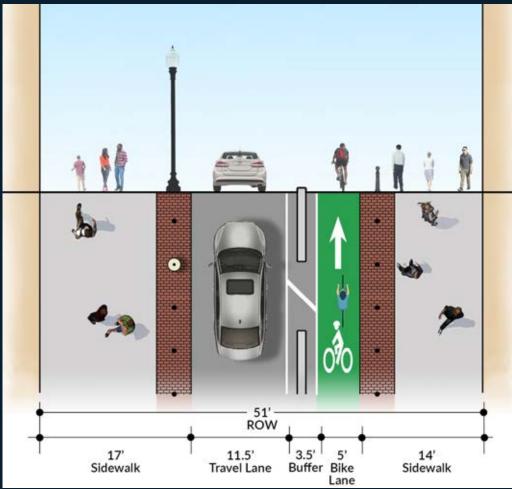
Option 1: Wide Sidewalk North Side – Relocate Loading



CONCEPTUAL DESIGN: Mid-State Section: Option 2

Option 2: Balance Sidewalks Both Sides – Relocate Loading





- One Travel Lane
- Sidewalks+ 11 feet
- ProtectedWB BikeLane

Existing

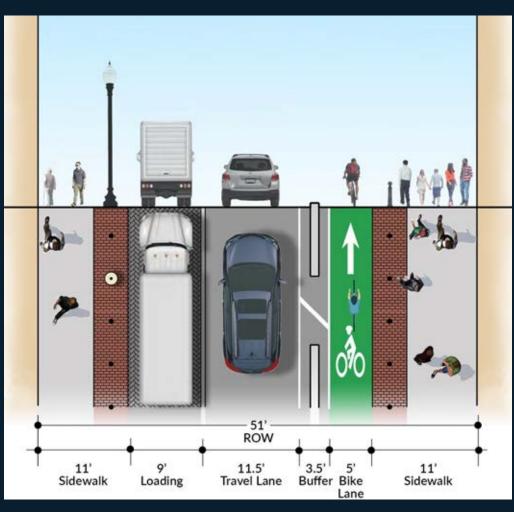
Proposed

Option 2: Balance Sidewalks Both Sides – Relocate Loading



Option 3: Loading on the South Side



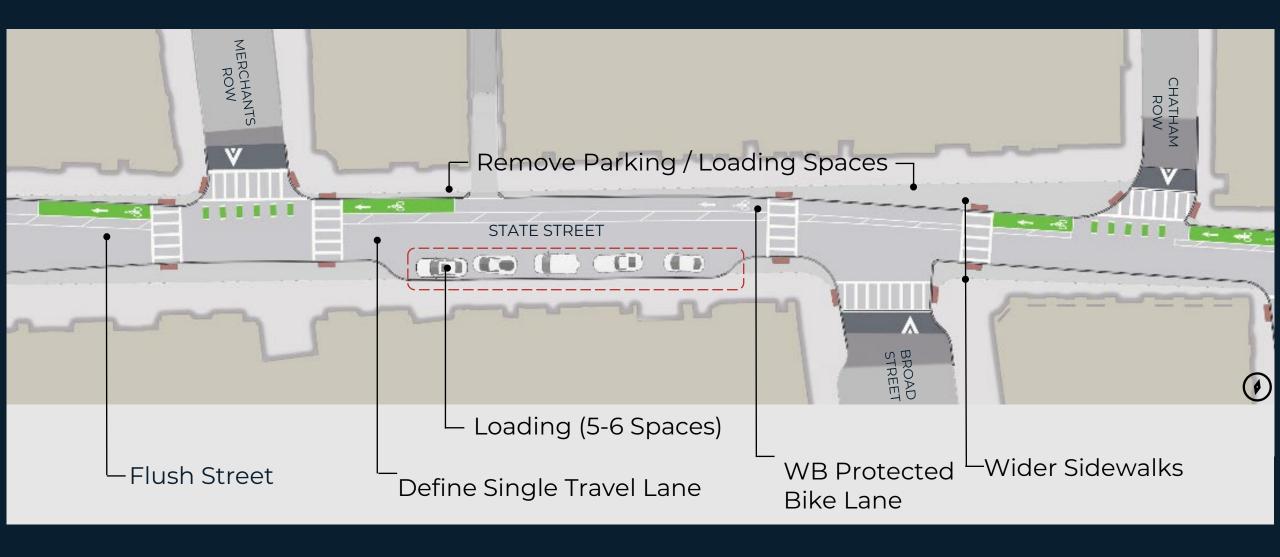


- OneTravelLane
- Sidewalks+2 feet
- Protected WB Bike Lane

Existing

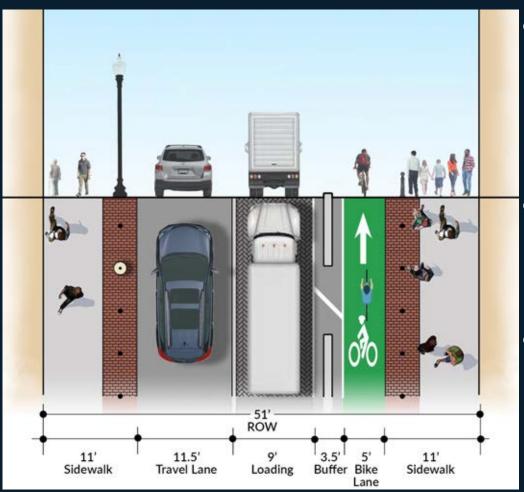
Proposed

Option 3: Loading on the South Side



Option 4: Loading on the North Side





One Travel Lane

Sidewalks +2 feet

Protected WB Bike Lane

Existing

Proposed

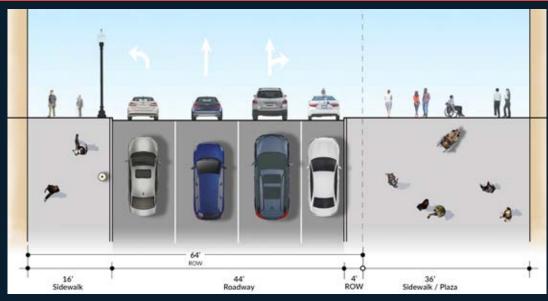
Option 4: Loading on the North Side



CONCEPTUAL DESIGN: Section at Congress Street

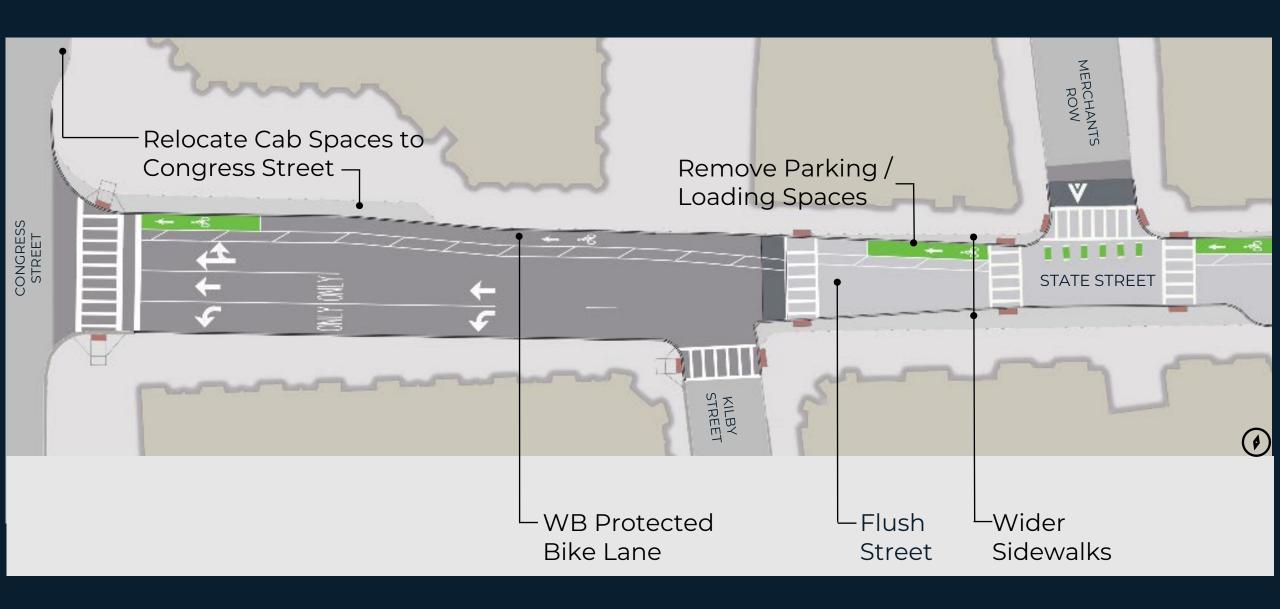
Existing

Proposed

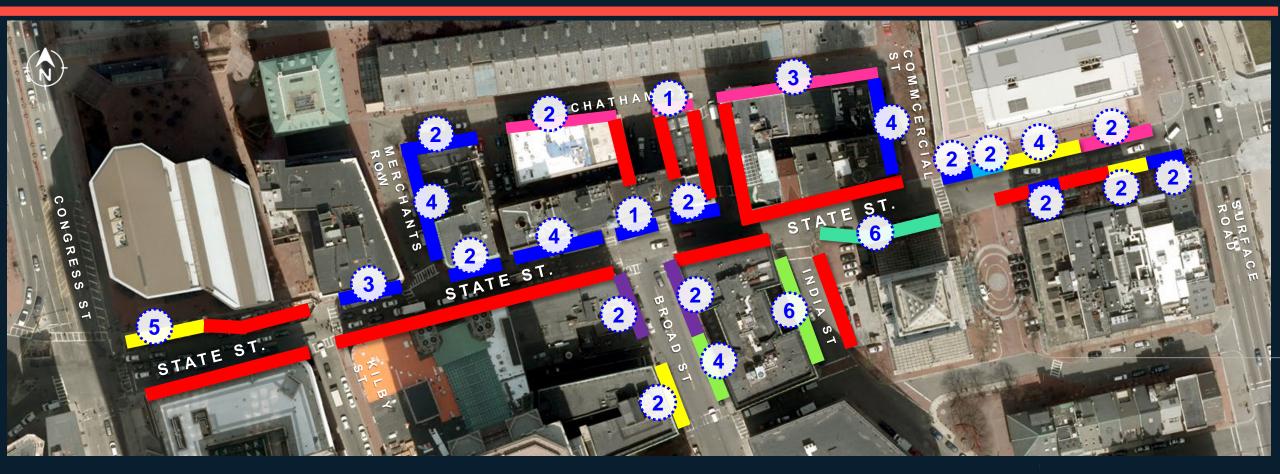


- Move the CabStand toCongressStreet
- Protected WB Bike Lane
- Sidewalks+ 5.5 feet

CONCEPTUAL DESIGN: Plan At Congress Street



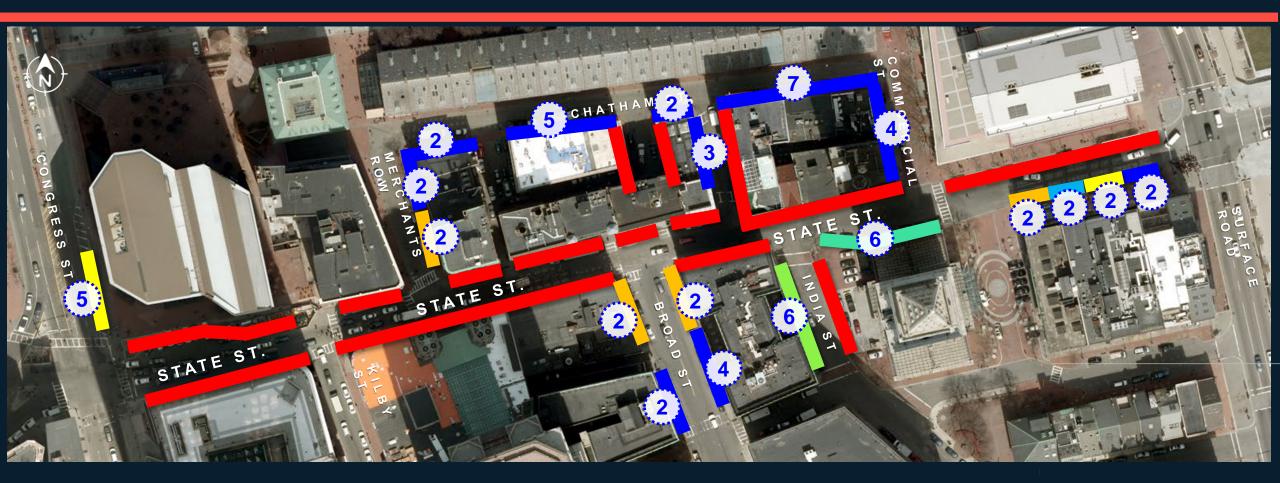
CONCEPTUAL DESIGN: Existing Curb Regulations



LEGEND



CONCEPTUAL DESIGN: Curb Regulation Concept 1

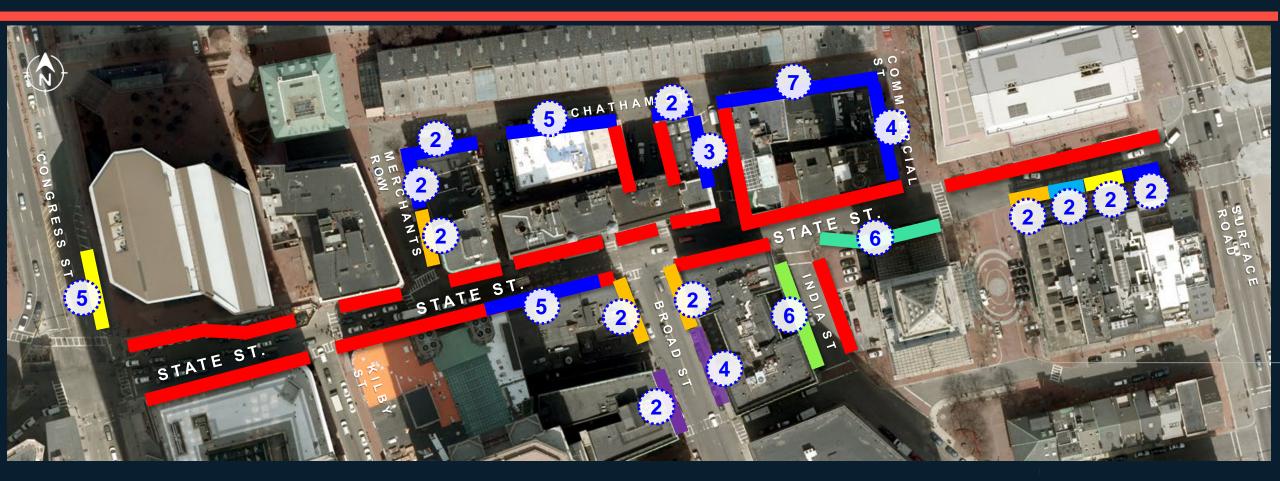


LEGEND



1 space = 20-feet 1 tour bus space = 40 feet

CONCEPTUAL DESIGN: Curb Regulation Concept 2



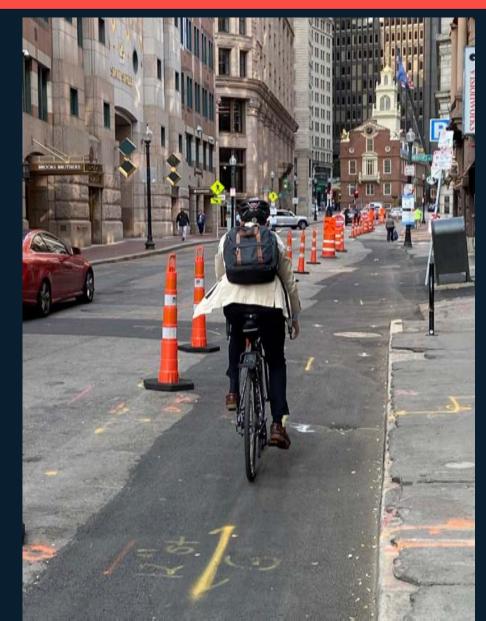
LEGEND



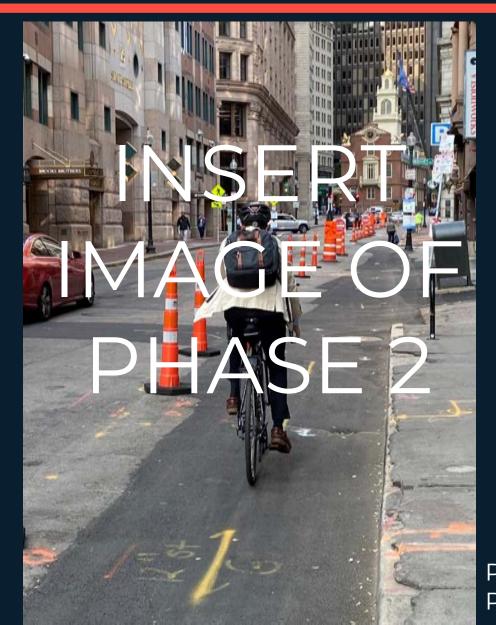
1 space = 20-feet 1 tour bus space = 40 feet



HEALTHY STREETS PILOT



Phase 1 Pilot



Phase 2 Pilot

PHASE 2 PILOT

- Better Definition of Pedestrian and Bike Zones
 - Flex Posts
 - Striping and Signage
 - Surface Paint for Pedestrian and Bicyclist Zones
- Curbside Use Regulation Changes
- Ongoing Data Collection

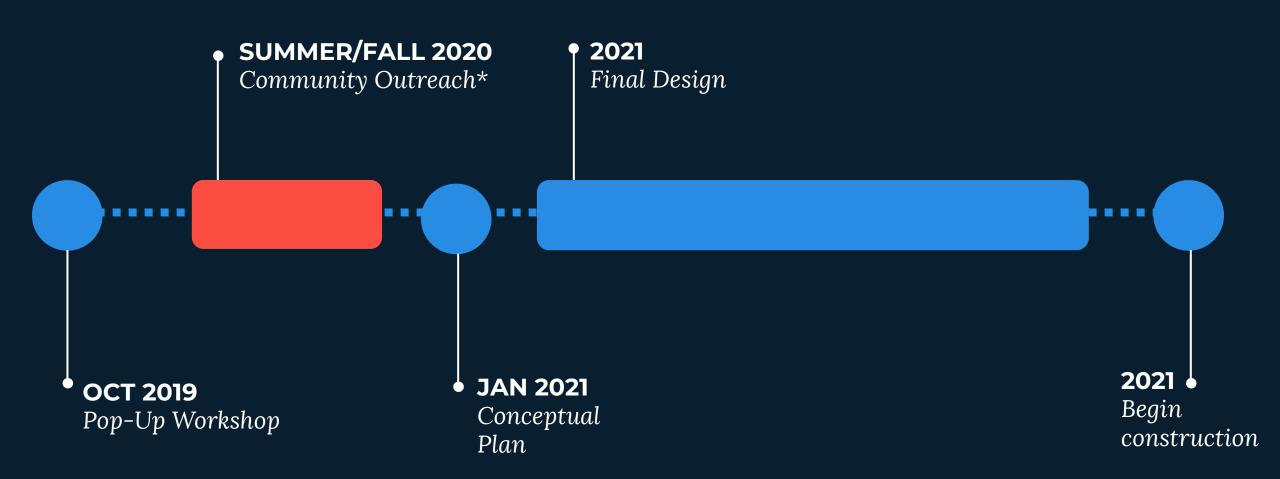
PHASE 1 PILOT: Data Collection - Daily Volumes

	2019	2020	% CHANGE
*	29,000	5,900	- 80%
	10,700	4,600	- 60%
50	350	240	- 30 %

^{*}Travel times and queue observations taken in Aug 2020 for future comparison.



PROJECT SCHEDULE:



^{*}Community outreach events will conform to social distancing guidelines.

HOW TO PROVIDE INPUT:

Project Website:

https://www.boston.gov/state-street

- Project Information and Updates
- Project Presentations
- General Online Survey
- Pilot Project Online Survey

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